S/M Code No.88-055 DATE OF ISSUE 9/1988-T

AIWA®

SERVICE MANUAL

X-44
CP-44
CX-44
CDX-44
S-712

STEREO SYSTEM

• BASIC TAPE MECHANISM : TN-21ZFW

• TYPE. E (CX-44, CDX-44) Z (CP-44)
K (X-44, S-712)

	casseiver	CD player	speaker	turntable
X-44	CX-S44	DX-SM45 ※2	SX-S44A	———
CP-44	CX-S44	———	———	PX-SE55 ※1
CDX-44	CX-S44	DX-SM45 ※2	———	———
S-712	CX-S712	———	SX-S712A	PX-SE712 ※3

※1 As to the service information of PX-SE55 (turntable), see the individual service manual of PX-E55/E88.

※2 As. to the service information of DX-SM45 (CD player), see the individual service manual of DX-M45/M78/M755.

※3 As to the service information of PX-SE712 (turntable), see the individual service manual of PX-E712/E755.

AIWA Co., Ltd. Tokyo Japan

SPECIFICATIONS

<Receiver>

Power source	CX-44E, Z 220V, 50/60HZ CX-44K, S712 240V, 50/60HZ
Power consumption	85W
Power output	12W + 12W(4 ohms, DIN) CX-44K, S712 15W + 15W(1kHz, 10%, T.H.D.)
Frequency response	NORMAL tape: 40-12,500Hz $Cr0_2$ tape: 40-14,000Hz(PB only) METAL tape: 40-16,000Hz(PB only)
Signal-to-noise ratio	58dB(NORMAL tape, DOLBY B NR ON, JIS-A)
Frequency ranges	FM: 87.5-108MHz MW: 530-1,605kHz LW: 150kHz – 285 kHz
Antenna	FM: 75 ohms MW/LW: Loop antenna
Wow & flutter	0.17% (WRMS)
Output terminals	SPEAKERS: 4 ohms HEADPHONES: 8 ohms
Input terminals (Sensitivity/impedance)	CX-44E, K, Z PHONO: 220mV/27k ohms VCR/AUX: 200mV~680mV/47k ohms CD: 300mV/47k ohms S712 PHONO: 220mV/47k ohms VCR/AUX: 150mV~550mV/47k ohms CD: 250mV/47k ohms
Dimensions	360(W) x 296(H) x 337(D) mm
Weight	6.2kg

<Speaker>

Type	2-way Bass reflex type
Speaker	170 mm cone type woofer 50 mm cone type tweefer
Impedance	4 ohms
Allowable maximum input	20W
Dimensions	255(W) x 430(H) x 170(D) mm
Weight	2.9kg

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation
- "DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

ELECTRICAL MAIN PARTS LIST

REF.NO.	PART NO.	DESCRIPTION
	===IC===	
	87-020-981-019	IC,CXA-1102
	87-020-566-019	IC,LA1265
	87-001-376-019	IC,LC7218
	87-027-895-019	IC,M5218L
	87-020-680-019	IC,NJM2068S
	87-020-758-019	IC,NJM2068SD
	87-027-867-019	IC,TA7343P
	87-001-378-019	IC,TA8210H
	87-001-207-010	IC,UPD7528ACU-210
	===TRANSISTOR===	
	89-501-615-019	FET,2SK161GR
	89-502-415-019	FET,2SK241GR
	89-502-464-019	FET,2SK246Y
	89-503-735-019	FET,2SK373
	87-026-165-019	FET,3SK73GR(Z)
	89-110-155-019	TRANSISTOR,2SA1015GR
	89-209-412-010	TRANSISTOR,2SB941
	89-313-834-019	TRANSISTOR,2SC1383S
	89-318-154-019	TRANSISTOR,2SC1815(Y)
	89-318-155-019	TRANSISTOR,2SC1815GR
	89-319-233-019	TRANSISTOR,2SC1923(O)
	89-320-011-019	TRANSISTOR,2SC2001K
	89-309-456-019	TRANSISTOR,2SC945LP
	89-419-130-019	TRANSISTOR,2SD1913
	87-026-376-010	TRANSISTOR,RN2203
	===DIODE===	
	82-596-799-019	DIODE,1N4002
	87-020-465-019	DIODE,1SS133
	87-020-599-019	DIODE,D3SB20
	87-020-123-019	DIODE,DS446
	87-027-393-019	DIODE,ZENER HZ-4C2
	87-027-475-019	DIODE,ZENER HZ-6B1
	87-027-332-019	DIODE,ZENER HZ-6B1L
	87-027-474-019	DIODE,ZENER HZ11A2
	87-027-556-019	DIODE,ZENER HZ11B3
	87-027-676-019	DIODE,ZENER HZ12B3L
	87-027-451-019	DIODE,ZENER HZ27-2L
	87-027-320-010	DIODE,ZENER HZ7C2
	===MAIN CIRCUIT BOARD SECTION===	
PCB-A	*	MAIN CIRCUIT BOARD
⚠	★87-033-147-019	FUSE CLAMP
BPF1	★87-030-105-010	FILTER BPMB 6A(Z)
C102	★87-018-134-019	CAP,CERA-SOL SS 0.01

REF.NO.	PART NO.	DESCRIPTION
C103	★87-018-100-019	CAP,CERA-SOL 4.7P(E,K,S712)
C103	★87-018-105-019	CAP,CERA-SOL SS 12P(Z)
C104	★87-018-134-019	CAP,CERA-SOL SS 0.01
C105	★87-018-105-019	CAP,CERA-SOL SS 12P(Z)
C105	★87-018-102-019	CAP,CERA-SOL SS 6.8P(E,K,S712)
C106	★87-018-102-019	CAP,CERA-SOL SS 6.8P(E,K,S712)
C107	★87-018-097-019	CAP,CERA-SOL SS 2.2P SL(Z)
C107	★87-018-098-089	CAP,CERA-SOL SS 3.3P(E,K,S712)
C108	★87-018-100-019	CAP,CERA-SOL 4.7P(E,K,S721)
C108	★87-018-106-019	CAP,CERA-SOL SS 15P SL(Z)
C109	★87-018-096-019	CAP,CERA-SOL SS 1P
C110	★87-018-119-019	CAP,CERA-SOL SS 100P
C111	★87-018-134-019	CAP,CERA-SOL SS 0.01
C112	★87-018-116-019	CAP,CERA-SOL SS 56P
C113	★87-018-107-019	CAP,CERA-SOL SS 18P
C116	★87-018-134-019	CAP,CERA-SOL SS 0.01
C117	★87-018-134-019	CAP,CERA-SOL SS 0.01
C118	★87-018-134-019	CAP,CERA-SOL SS 0.01
C119	★87-010-401-019	CAP,ELECT 1-50V
C120	★87-018-134-019	CAP,CERA-SOL SS 0.01
C121	★87-018-134-019	CAP,CERA-SOL SS 0.01
C122	★87-010-406-019	CAP,ELECT 22-50V
C123	★87-018-125-019	CAP,CERA-SOL SS 330P(E,K,S712)
C124	★87-010-402-019	CAP,ELECT 2.2-50V
C125	★87-018-134-019	CAP,CERA-SOL SS 0.01
C126	★87-018-134-019	CAP,CERA-SOL SS 0.01
C127	★87-018-047-019	CAP,CERA-SOL 0.01UF-16V
C129	★87-018-100-019	CAP,CERA-SOL 4.7P(Z)
C130	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C131	★87-018-105-019	CAP,CERA-SOL SS 12P(Z)
C133	★87-010-402-019	CAP,ELECT 2.2-50V(Z)
C134	★87-010-125-019	CAP,ELECT 330P(Z)
C135	★87-010-402-019	CAP,ELECT 2.2-50V(Z)
C151	★87-010-544-019	CAP,ELECT 0.1-50V
C152	★87-014-049-089	CAP,PP 470P
C154	★87-018-121-019	CAP,CERA-SOL SS 150P
C155	★87-014-050-019	CAP,PP 510P
C156	★87-018-134-019	CAP,CERA-SOL SS 0.01
C157	★87-018-134-019	CAP,CERA-SOL SS 0.01
C158	★87-018-134-019	CAP,CERA-SOL SS 0.01
C159	★87-010-404-089	CAP,ELECT 4.7-50 SME
C160	★87-010-405-019	CAP,ELECT 10-50V SME
C161	★87-010-544-019	CAP,ELECT 0.1-50V
C162	★87-010-403-019	CAP,ELECT 3.3-50V SME
C163	★87-018-134-019	CAP,CERA-SOL SS 0.01
C165	★87-010-402-019	CAP,ELECT 2.2-50V
C166	★87-018-134-019	CAP,CERA-SOL SS 0.01
C168	★87-010-263-019	CAP,ELECT 100-10V
C201	★87-010-401-019	CAP,ELECT 1-50V
C202	★87-010-403-019	CAP,ELECT 3.3-50V SME
C203	★87-014-057-019	CAP,PP 1000P
C204	★87-010-248-019	CAP,ELECT 220-10V
C205	★87-010-405-019	CAP,ELECT 10-50V SME
C206	★87-018-134-019	CAP,CERA-SOL SS 0.01
C209	★87-010-402-019	CAP,ELECT 2.2-50V
C210	★87-010-402-019	CAP,ELECT 2.2-50V
C211	★87-018-195-019	CAP,CERA-SOL SS 1200P
C212	★87-018-195-019	CAP,CERA-SOL SS 1200P
C213	★87-018-199-019	CAP,CERA-SOL SS 3300P
C214	★87-018-199-019	CAP,CERA-SOL SS 3300P
C215	★87-018-134-019	CAP,CERA-SOL SS 0.01
C251	★87-018-114-019	CAP,CERA-SOL SS 39P
C252	★87-018-131-019	CAP,CERA-SOL SS 1000P
C253	★87-018-119-019	CAP,CERA-SOL SS 100P
C254	★87-018-134-019	CAP,CERA-SOL SS 0.01
C255	★87-010-252-019	CAP,ELECT 1000-6.3
C256	★87-010-401-019	CAP,ELECT 1-50V
C257	★87-010-404-089	CAP,ELECT 4.7-50 SME

REF.NO.	PART NO.	DESCRIPTION
C258	★87-018-134-019	CAP,CERA-SOL SS 0.01
C259	★87-010-384-019	CAP,ELECT 100-25V
C261	★87-018-134-019	CAP,CERA-SOL SS 0.01
C262	★87-018-134-019	CAP,CERA-SOL SS 0.01
C264	★87-018-134-019	CAP,CERA-SOL SS 0.01
C265	★87-018-131-019	CAP,CERA-SOL SS 1000P
C266	★87-018-047-019	CAP,CERA-SOL 0.01
C268	★87-010-378-019	CAP,ELECT 10-16V
C269	★87-018-047-019	CAP,CERA-SOL 0.01
C301	★87-018-127-019	CAP,CERA-SOL SS 470P
C302	★87-018-127-019	CAP,CERA-SOL 470P
C305	★87-010-401-019	CAP,ELECT 1-50V
C306	★87-010-401-019	CAP,ELECT 1-50V
C307	★87-018-127-019	CAP,CERA-SOL SS 470P
C308	★87-018-127-019	CAP,CERA-SOL SS 470P
C311	★87-010-401-019	CAP,ELECT 1-50V
C312	★87-010-401-019	CAP,ELECT 1-50V
C313	★87-010-402-019	CAP,ELECT 2.2-50V
C314	★87-010-402-019	CAP,ELECT 2.2-50V
C317	★87-010-544-019	CAP,ELECT 0.1-50V
C318	★87-010-544-019	CAP,ELECT 0.1-50V
C319	★87-018-117-019	CAP,CERA-SOL SS 68P
C320	★87-018-117-019	CAP,CERA-SOL SS 68P
C321	★87-018-121-019	CAP,CERA-SOL SS 150P
C322	★87-018-121-019	CAP,CERA-SOL SS 150P
C323	★87-010-401-019	CAP,ELECT 1-50V
C324	★87-010-401-019	CAP,ELECT 1-50V
C325	★87-010-401-019	CAP,ELECT 1-50V
C326	★87-010-401-019	CAP,ELECT 1-50V
C327	★87-018-123-019	CAP,CERA-SOL SS 220P
C328	★87-018-123-019	CAP,CERA-SOL SS 220P
C329	★87-018-123-019	CAP,CERA-SOL SS 220P
C330	★87-018-123-019	CAP,CERA-SOL SS 220P
C331	★87-010-404-019	CAP,ELECT 4.7-50V SME
C332	★87-010-404-019	CAP,ELECT 4.7-50V SME
C333	★87-010-404-019	CAP,ELECT 4.7-50V SME
C334	★87-010-404-019	CAP,ELECT 4.7-50V SME
C335	★87-010-256-019	CAP,ELECT 0.68-50V
C336	★87-010-256-019	CAP,ELECT 0.68-50V
C341	★87-018-134-019	CAP,CERA-SOL SS 0.01
C342	★87-010-371-019	CAP,ELECT 470-6.3V
C343	★87-010-371-019	CAP,ELECT 470-6.3V
C345	★87-018-131-019	CAP,CERA-SOL SS 1000P
C346	★87-018-131-019	CAP,CERA-SOL SS 1000P
C349	★87-018-134-019	CAP,CERA-SOL SS 0.01
C351	★87-010-406-019	CAP,ELECT 22-50V
C352	★87-010-380-019	CAP,ELECT 47-16V
C353	★87-010-380-019	CAP,ELECT 47-16V
C354	★87-010-112-019	CAP,ELECT 100-16V
C355	★87-010-404-089	CAP,ELECT 4.7-50 SME
C356	★87-010-263-019	CAP,ELECT 100-10V
C357	★87-010-260-019	CAP,ELECT 47-25V
C358	★87-010-101-019	CAP,ELECT 220-16V
C359	★87-010-384-019	CAP,ELECT 100-25V
C360	★87-010-265-019	CAP,ELECT 33-16V
C367	★87-018-119-019	CAP,CERA-SOL SS 100P(Z)
C368	★87-018-119-019	CAP,CERA-SOL SS 100P(Z)
C369	★87-018-119-019	CAP,CERA-SOL SS 100P(Z)
C370	★87-018-119-019	CAP,CERA-SOL SS 100P(Z)
C371	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C372	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C373	★87-018-119-019	CAP,CERA-SOL SS 100P(Z)
C374	★87-018-119-019	CAP,CERA-SOL SS 100P(Z)
C375	★87-010-115-019	CAP,CERA-SOL SS 47P(Z)
C376	★87-010-115-019	CAP,CERA-SOL SS 47P(Z)
C377	★87-018-047-019	CAP,CERA-SOL 0.01(Z)
C378	★87-018-047-019	CAP,CERA-SOL 0.01(Z)
C379	★87-018-047-019	CAP,CERA-SOL 0.01(Z)

REF.NO.	PART NO.	DESCRIPTION
C380	★87-018-047-019	CAP,CERA-SOL 0.01(Z)
C381	★87-010-115-019	CAP,CERA-SOL SS 47P(Z)
C382	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C387	★87-018-131-019	CAP,CERA-SOL SS 1000P(Z)
C388	★87-018-131-019	CAP,CERA-SOL SS 1000P(Z)
C389	★87-018-131-019	CAP,CERA-SOL SS 1000P(Z)
C390	★87-018-131-019	CAP,CERA-SOL SS 1000P(Z)
C391	★87-663-635-019	CAP,CERA-SOL 2200P
C392	★87-663-635-019	CAP,CERA-SOL 2200P
C393	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C394	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C395	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C396	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C397	★87-018-046-019	CAP,CERA-SOL 4700P(Z)
C398	★87-018-046-019	CAP,CERA-SOL 4700P(Z)
C501	★87-018-134-019	CAP,CERA-SOL SS 0.01
C502	★87-010-101-019	CAP,ELECT 220-16V
C503	★87-010-263-019	CAP,ELECT 100-10V
C504	★87-010-380-019	CAP,ELECT 47-16V
C505	★87-018-134-019	CAP,CERA-SOL SS 0.01
C506	★87-010-101-019	CAP,ELECT 220-16V
C507	★87-010-402-019	CAP,ELECT 2.2-50V
C508	★87-018-125-019	CAP,CERA-SOL SS 330P
C509	★87-010-246-019	CAP,ELECT 47-35V
C510	★87-010-247-019	CAP,ELECT 100-50V SME
C511	★87-010-384-019	CAP,ELECT 100-25V
C512	★87-010-453-019	CAP,ELECT 4700-25V
C513	★87-010-380-019	CAP,ELECT 47-16V
C514	★87-010-384-019	CAP,ELECT 100-25V
C515	★82-010-453-019	CAP,ELECT 4700-25V
C517	★87-010-263-019	CAP,ELECT 100-10V
C518	★87-010-378-019	CAP,ELECT 10-16V
C520	★87-010-263-019	CAP,ELECT 100-10V
C521	★87-010-265-019	CAP,ELECT 33-16 SME
C522	★87-010-404-019	CAP,ELECT 4.7-50V SME
C523	★87-018-128-019	CAP,CERA-SOL SS 560P
C524	★87-018-128-019	CAP,CERA-SOL SS 560P
C525	★87-010-401-019	CAP,ELECT 1-50V
C526	★87-010-401-019	CAP,ELECT 1-50V
C527	★87-010-378-019	CAP,ELECT 10-16 SME
C528	★87-010-378-019	CAP,ELECT 10-16 SME
C529	★87-010-263-019	CAP,ELECT 100-10V
C530	★87-010-236-019	CAP,ELECT 100-10V
C531	★87-010-401-019	CAP,ELECT 1-50V
C532	★87-010-401-019	CAP,ELECT 1-50V
C533	★87-010-374-019	CAP,ELECT 47-10V
C534	★87-010-381-019	CAP,ELECT 330-16V SME
C535	★87-010-101-019	CAP,ELECT 470-10V
C541	★87-010-405-019	CAP,ELECT 10-50V
CF101	★82-799-621-019	CF MS2-A(Z)
CF101	★87-008-261-019	FILTER SFE 10.7 MA5-A(E,K,S712)
CF102	★87-008-261-019	FILTER SFE 10.7 MA5-A
CF103	★82-794-670-019	FILTER BFU 450C4N
CF104	★87-008-261-019	FILTER SFE 10.7 MA5-A(Z)
D101	87-027-900-019	DIODE,VALICAP 1SV147
D103	87-027-900-019	DIODE,VALICAP 1SV147
D104	87-027-900-019	DIODE,VALICAP 1SV147
D105	87-027-900-019	DIODE,VALICAP 1SV147(Z)
D151	★81-754-634-019	DIODE,VALICAP KV1260
⚠F1	87-035-360-010	FUSE 630MMA T
⚠F2	87-035-360-010	FUSE 630MMA T
⚠FR106	87-029-102-019	RES,FUSIBLE 1/4W 47
⚠FR107	87-029-089-019	RES,FUSIBLE 1/4W 4.7
⚠FR108	87-029-008-010	RES,FUSIBLE 1/4W 22
⚠FR109	87-029-089-019	RES,FUSIBLE 1/4W 4.7
⚠FR111	87-029-070-019	RES,FUSIBLE 1/4W 2.2
⚠FR112	87-029-070-019	RES,FUSIBLE 1/4W 2.2
⚠FR113	87-029-070-019	RES,FUSIBLE 1/4W 2.2
⚠FR114	87-029-070-019	RES,FUSIBLE 1/4W 2.2
⚠FR115	87-029-108-019	RES,FUSIBLE 1/2W 1
J101	★81-631-646-019	ANT TERM 2P PAL(ANTENNA)
J102	★87-049-868-019	JACK PIN 4P(AUX/CD)
J103	★87-033-195-019	TERM 4P(SPEAKERS)
J105	87-049-855-019	JACK 6.3-W/S(PHONES)
J201	87-049-833-019	5P CONNECTOR SOCKET(PHONO)
L101	★81-631-649-010	COIL ANT 2-3/4
L102	★81-794-716-010	COIL ANT3/4 T
L103	★82-791-627-019	COIL FM ANT 2
L104	★82-702-638-019	COIL FM DIA 6
L105	★87-005-151-019	COIL 2.2UH
L106	★82-794-683-019	COIL IFT FM
L107	★82-702-621-019	COIL FM OSC (7K)
L108	★81-631-611-019	COIL QUAD(S)
L109	★82-702-638-019	COIL FM DIA6 (Z)
L110	★82-794-687-019	FILTER ANTI BIRDIE (Z)
L151	★81-631-655-019	COIL MW ANT-12(S)
L152	★82-794-687-019	COIL OSC MW
L153	★81-631-656-019	COIL LW ANT-10R(S)
L154	★82-794-688-019	COIL OSC LW
L155	★81-701-642-019	COIL CFLZ-450A
L201	★81-631-643-019	COIL 1 POLE MPX
L202	★81-631-643-019	COIL 1 POLE MPX
L311	★87-005-366-010	COIL,1UH(Z)
L312	★87-005-366-010	COIL,1UH(Z)
L313	★87-003-128-019	MICRO INDUCTOR 5.6MMH
L314	★87-003-128-019	MICRO INDUCTOR 5.6MMH
L315	★87-005-366-010	COIL,1UH(Z)
L316	★87-005-366-010	COIL,1UH(Z)
L321	★81-794-661-019	COIL OSC
SFR14	★87-021-864-019	SFR 10K(VCR INPUT LEVEL)
SFR15	★87-021-864-019	SFR 10K(VCR INPUT LEVEL)
SFR201	★87-021-742-019	SFR 10K
SFR307	★87-021-735-019	SFR 220B
SFR308	★87-021-735-019	SFR 220B
SFR313	★87-021-743-019	SFR 22KB
SFR314	★87-021-743-019	SFR 22KB
SFR321	★87-021-744-019	SFR 33K
SFR322	★87-021-744-019	SFR 33K
SFR325	★87-021-822-010	SFR 3.3K
TC101	★87-011-155-019	CAP,TRIMMER CERAMIC 10P
TC102	★87-011-155-019	CAP,TRIMMER CERAMIC 10P
TC103	★87-011-155-019	CAP,TRIMMER CERAMIC 10P(Z)
TC151	★87-011-164-019	CAP,TRIMMER CARAMIC 30P
TC152	★87-631-656-019	CAP,TRIMMER 30P
TC251	★87-011-131-019	CAP,TRIMMER 30P
X251	★87-030-122-019	CRYSTAL 7.2M

===FRONT CIRCUIT BOARD SECTION===

PCB-B	*	FRONT CIRCUIT BOARD
C543	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C601	★87-010-401-019	CAP,ELECT 1-50V
C602	★87-010-401-019	CAP,ELECT 1-50V
C605	★87-010-404-019	CAP,ELECT 4.7-50V SME
C606	★87-010-404-019	CAP,ELECT 4.7-50V SME
C619	★87-018-134-019	CAP,CERA-SOL SS 0.01
C620	★87-018-134-019	CAP,CERA-SOL SS 0.01
C623	★87-010-544-019	CAP,ELECT 0.1-50V
C624	★87-010-544-019	CAP,ELECT 0.1-50V
C625	★87-010-545-019	CAP,ELECT 0.22-50V SM
C626	★87-010-545-019	CAP,ELECT 0.22-50V SM
C629	★87-010-384-019	CAP,ELECT 100-25V
C631	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C632	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C633	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)

REF.NO.	PART NO.	DESCRIPTION
C634	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C701	★87-010-379-019	CAP,ELECT 22-16V SME
C702	★87-018-113-019	CAP,CERA-SOL SS 33P
C703	★87-010-394-019	CAP,ELECT 220-35V SME
C704	★87-018-209-019	CAP,CERA-SOL 0.1
C705	★87-010-252-019	CAP,ELECT 1000-6.3V
C706	★87-010-379-019	CAP,ELECT 22-16V SME
C707	★87-010-382-019	CAP,ELECT 22-50V SME
C708	★87-018-134-019	CAP,CERA-SOL SS 0.01
C709	★87-018-134-019	CAP,CERA-SOL SS 0.01
C710	★87-018-123-019	CAP,CERA-SOL SS 220P
C711	★87-018-123-019	CAP,CERA-SOL SS 220P
C712	★87-018-123-019	CAP,CERA-SOL SS 220P
C713	★87-018-127-019	CAP,CERA-SOL SS 470P
C714	★87-018-127-019	CAP,CERA-SOL SS 470P
C715	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
C716	★87-018-134-019	CAP,CERA-SOL SS 0.01(Z)
FL701	81-783-662-019	FL,2PRO EX
L701	★87-003-152-019	COIL CHOKE 100UH
L702	★87-003-152-019	COIL CHOKE 100UH
LED1	87-020-551-019	LED TLG208(DOLBY B NR)
LED2	87-027-731-019	LED SR-535D(POWER)
S21	87-036-075-019	PUSH SW(DOLBY B NR)
S22	+ + +	PUSH SW(DOLBY B NR)
S31	87-036-075-019	PUSH SW(TAPE SELECTOR)
S32	+ + +	PUSH SW(TAPE SELECTOR)
SW701	87-031-771-010	TACT SW(M1)
SW702	87-031-771-010	TACT SW(M2)
SW703	87-031-771-010	TACT SW(M3)
SW704	87-031-771-010	TACT SW(M4)
SW705	87-031-771-010	TACT SW(M5)
SW706	87-031-771-010	TACT SW(M6)
SW707	87-031-771-010	TACT SW(M7)
SW708	87-031-771-010	TACT SW(M8)
SW709	87-031-771-010	TACT SW(FM)
SW710	87-031-771-010	TACT SW(MW)
SW711	87-031-771-010	TACT SW(LW)
SW712	87-031-771-010	TACT SW(POWER)
SW713	87-031-771-010	TACT SW(ONCE)
SW714	87-031-771-010	TACT SW(MEMORY)
SW715	87-031-771-010	TACT SW(DOWN)
SW716	87-031-771-010	TACT SW(UP)
SW717	87-031-771-010	TACT SW(TIMER/FREQ)
SW718	87-031-771-010	TACT SW(TIMER STANDBY)
SW719	87-031-771-010	TACT SW(SET)
SW720	87-031-771-010	TACT SW(EVERY)
SW721	87-031-771-010	TACT SW(SLEEP)
SW722	84-722-613-019	SLIDE SW(MONO/STEREO)
VR1	81-631-642-019	VOLUME SLIDE 100KB(G.EQ.70HZ)
VR2	+ + +	VOLUME SLIDE 100KB(G.EQ.70HZ)
VR3	81-631-642-019	VOLUME SLIDE 100KB(G.EQ.350HZ)
VR4	+ + +	VOLUME SLIDE 100KB(G.EQ.350HZ)
VR5	81-631-642-019	VOLUME SLIDE 100KB(G.EQ.1KHZ)
VR6	+ + +	VOLUME SLIDE 100KB(G.EQ.1KHZ)
VR7	81-631-642-019	VOLUME SLIDE 100KB(G.EQ3.5KHZ)
VR8	+ + +	VOLUME SLIDE 100KB(G.EQ3.5KHZ)
VR9	81-631-642-019	VOLUME SLIDE 100KB(G.EQ.10KHZ)
VR10	+ + +	VOLUME SLIDE 100KB(G.EQ.10KHZ)
VR11	81-631-644-019	VOLUME ROTALY 50KA(VOLUME)
VR12	+ + +	VOLUME ROTALY 50KA(VOLUME)
VR13	81-626-624-019	ROTALY VOLUME 50KW(BALANCE)

REF.NO.	PART NO.	DESCRIPTION
===POWER CIRCUIT BOARD SECTION===		
⚠PCB-C	*	POWER CIRCUIT BOARD
⚠	★87-033-147-019	FUSE CLAMP
⚠F3	87-035-358-010	FUSE 400MMA T
⚠PT1	81-636-601-019	POWER TRANSFORMER E(E,Z)
⚠PT1	81-636-604-019	POWER TRANSFORMER K/N(K,S712)
===LED CIRCUIT BOARD SECTION===		
PCB-D	*	LED CIRCUIT BOARD
LED3	87-020-987-019	LED SLZ 981C-02-T1(VOLUME)
LED4	87-020-987-019	LED SLZ 981C-02-T1(VOLUME)
===MISCELLANEOUS===		
⚠	★87-034-736-010	AC CORD(E)(E,Z)
⚠	★87-034-975-018	AC CORD(K,S712)
⚠	★87-085-185-010	BUSHING AC CORD E
EH	★87-046-285-019	E.HEAD(DECK2)
M901	★S6-002-030-190	MOTOR
PH	★S6-202-010-750	P.HEAD(DECK1)
RPH	★S6-202-010-750	R.P.HEAD(DECK2)
S901	★S6-401-010-610	LEAF SW(REC DECK2)
S902	★S6-401-011-490	LEAF SW(MOTOR DECK2)
S903	★S6-401-011-490	LEAF SW(MOTOR DECK1)
S904	★S6-401-011-690	LEAF SW(PLAY DECK1)
S905	★S6-401-010-610	LEAF SW(HI SPEED DECK1)

Combination Circuit Board A 81-636-610-019
(E, K, S712 ONLY)

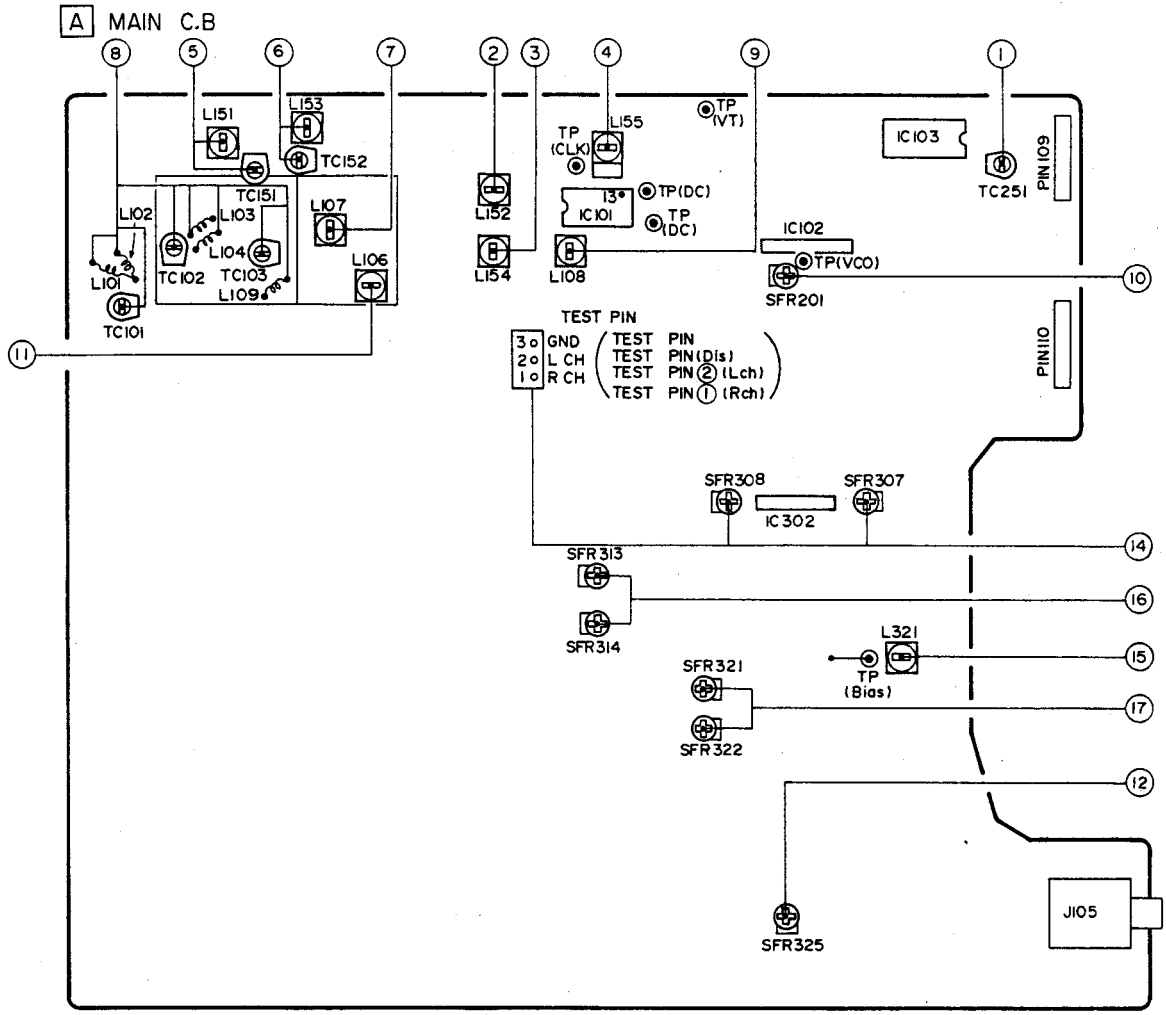
PCB-A 81-636-611-019
PCB-C 81-636-612-019

Combination Circuit Board A 81-636-616-019
(Z ONLY)

PCB-A 81-636-617-019
PCB-C 81-636-618-019

Combination Circuit Board B 81-631-617-019
PCB-B 81-631-618-019
PCB-D 81-631-619-019

ADJUSTMENT



1. Clock Frequency Adjustment
   Settings : · Test point : TP (CLK)
   · Adjustment location : TC251
   Method : Set to MW 1611kHz and adjust so that the test point becomes 2061kHz±10Hz.

2. MW VT Adjustment
   Settings : · Test point : TP (VT)
   · Adjustment location : L152
   Method : Set to MW, 1611kHz and adjust so that the test point becomes 8.0±0.05V.

3. LW VT Adjustment
   Settings : · Test point : TP (VT)
   · Adjustment location : L154
   Method : Set to LW, 144kHz and adjust so that the test point becomes 1.5±0.05V.

4. AM IF Adjustment
   L155 · 450kHz

5. MW Tracking Adjustment
   L151 · 603kHz
   TC151 · 1404kHz

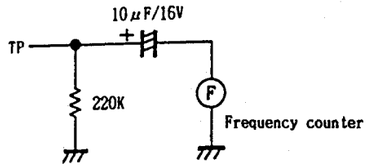
6. LW Tracking Adjustment
   L153 · 144kHz
   TC152 · 290kHz

7. FM VT Adjustment
   Settings : · Test point : TP (VT)
   · Adjustment location : L107
   Method : Set to FM 87.5MHz and adjust so that the test point becomes 3.0±0.05V.

8. FM Tracking Adjustment
   L101, 102, 103, 104 · · · · · · · · · · · · · · · 87.5MHz
   L101, 102, 103, 104, 109 (Z ONLY) · · · · · · · 87.5MHz
   TC101, 102 · 108MHz
   TC101, 102, 103 (Z ONLY) · · · · · · · · · · · · 108MHz

9. DC Balance/MONO Distortion Adjustment
   Settings : · Test point : TP (DC)
   TP (DC)
   TEST PIN (Dis)
   · Adjustment location : L108 (DC balance)
   Method : Set to FM 98MHz and adjust L108 so that TP (DC) output becomes 0±0.02V.
   Next, confirm to the distortion satisfy either standard (less than 0.5%).
   At the TEST PIN (Dis)

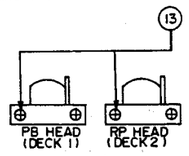
10. MPX VCO Adjustment
Settings . · Test point : TP (VCO)
· Adjustment location : SFR201
Method : Connect a frequency counter to the test point via 10μF capacitor. Set to FM 98MHz and adjust so that the frequency at test point becomes 38kHz±50Hz.



11. STEREO Distortion Adjustment
Settings : · Test point : TEST PIN
· FM MODE SW : STEREO
· Adjustment location : L106
Method : Adjust so that the distortion becomes minimum (less than 1.1%)

12. Normal Speed Adjustment (DECK-1, DECK-2)
Settings : · Test tape : TTA-100(TTA-111S)
· Test point : TEST PIN
· Adjustment location : SFR325
Method : Play back the test tape, adjust for 3kHz±15Hz.

13. Head Azimuth Adjustment (DECK-1, DECK-2)
Settings : · Test tape : TTS-310(SCC-1429, TTA-317E)
· Test point : TEST PIN
· Adjustment location : Head azimuth adjustment screw
Method : Play back the 10kHz signal of the test tape, and adjust so that the output becomes maximum.



14. PB Sensitivity Adjustment (DECK-2)
Settings : · Test tape : TTS-200 (TCC-130, TTA-161)
· Test point : TEST PIN ② (Lch)
TEST PIN ① (Rch)
· Dolby NR switch : OFF
· Adjustment location : SFR307 (DECK-2, Lch)
SFR308 (DECK-2, Rch)
Method : Play back the test tape, and adjust so that the output becomes 385mV±0.5dB.

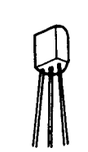
15. BIAS OSC Frequency Adjustment
Settings : · Test tape : TTA-600 (TTA-119K)
· Test point : TP (Bias)
· OSC MODE SW : ●
· Adjustment location : L321
Method : Adjust so that the output frequency becomes 85kHz±1kHz.

16. REC/PB Sensitivity Adjustment (DECK-2)
Settings Test tape : TTA-600(TTA-119K)
· Test point : TEST PIN ② (Lch)
TEST PIN ① (Rch)
· Dolby NR switch : OFF
· GRAPHIC EQ.VOL. : CENTER
· Adjustment location : SFR313 (DECK-2, Lch)
SFR314 (DECK-2, Rch)
Method : Set the DECK-2 in the REC mode and adjust ATT so that the 1kHz signal output is 270mV. Record the 1kHz signal, then play back the recorded tape, and adjust so that the output becomes 270mV±0.5dB.

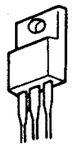
17. REC/PB Frequency Response Adjustment (DECK-2)
Settings : · Test tape : TTA-600(TTA-119K)
· Test pint : TEST PIN ② (Lch)
TEST PIN ① (Rch)
· Dolby NR switch : OFF
· GRAPHIC EQ.VOL. : CENTER
· Adjustment location : SFR321 (Lch)
SFR322 (Rch)
Method : Set the DECK-2 in the REC mode and adjust ATT so that the 1kHz signal output is 270mV-20dB at TEST PIN L (TEST PIN R). Record the 1kHz and 10kHz signal, then play back the recorded tape and adjust so that the output difference between 1kHz and 10kHz becomes 0dB±0.5dB.

PRACTICAL SERVICE FIGURE

(TUNER section)	
<FM section>	
IHF Sensitivity:	5±4dB (EXCEPT Z) (THD 3%, 300Ω, 98MHz) 11±4dB (S/N 26dB) (Z only)
S/N 50dB sensitivity:	30±6dB(98MHz) (EXCEPT Z)
S/N 46dB sensitivity:	35±6dB (Z only)
IF Frequency:	10.7MHz
Stereo Distortion:	Less than 1.2%(98MHz)
Stereo Separation:	More than 30dB(98MHz)
<MW section>	
Sensitivity:	53±5dB(999kHz)
(S/N 20dB)	
IF Frequency:	450kHz
<LW section>	
Sensitivity:	63±4dB (200kHz)
(S/N 20dB)	
IF Frequency:	450kHz
(CASSETTE DECK section)	
PB output level:	More than 5V TTS-200(TTC-130, SP OUT)
REC/PB output level: (INPUT: CD 1kHz-10dB OUTPUT: 2V)	2V±2dB(SP OUT)
Distortion(REC/PB):	Less than 3% (NORM at 400Hz.)
Erasing ratio:	More than 60dB (at 125Hz)
Channel separation:	More than 30dB
Recording bias frequency:	85kHz
Noise(PB): (DUMMY CASSETTE) (SP OUT) (VOL: MAX)	Less than 60mV (NORM. Tape, Unweighted DOLBY-NR B OFF DECK-1) Less than 80mV. (NORM. Tape, weighted DOLBY-NR B OFF DECK-2)
Wow & flutter: TTA-100(TTA-111S)	Less than 0.2% (DECK-1, 2 WRMS)
Take-up torque:	30～60g-cm(DECK-1,2) (0.3～0.59mN.m)
F.F & REW torque:	55～140g-cm(DECK-1,2) (0.54～1.37mN.m)
Back tension:	2～5g-cm(DECK-1,2) (0.02～0.05mN.m)
Test tape:	NORMAL TTA-600(TTA-119K)

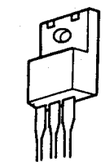


2SA1015
2SC945
2SC1815
2SC1923
2SC2001

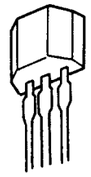


2SB941

2SC1383

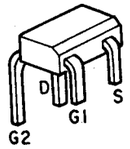


2SD1913



2SK161
2SK241

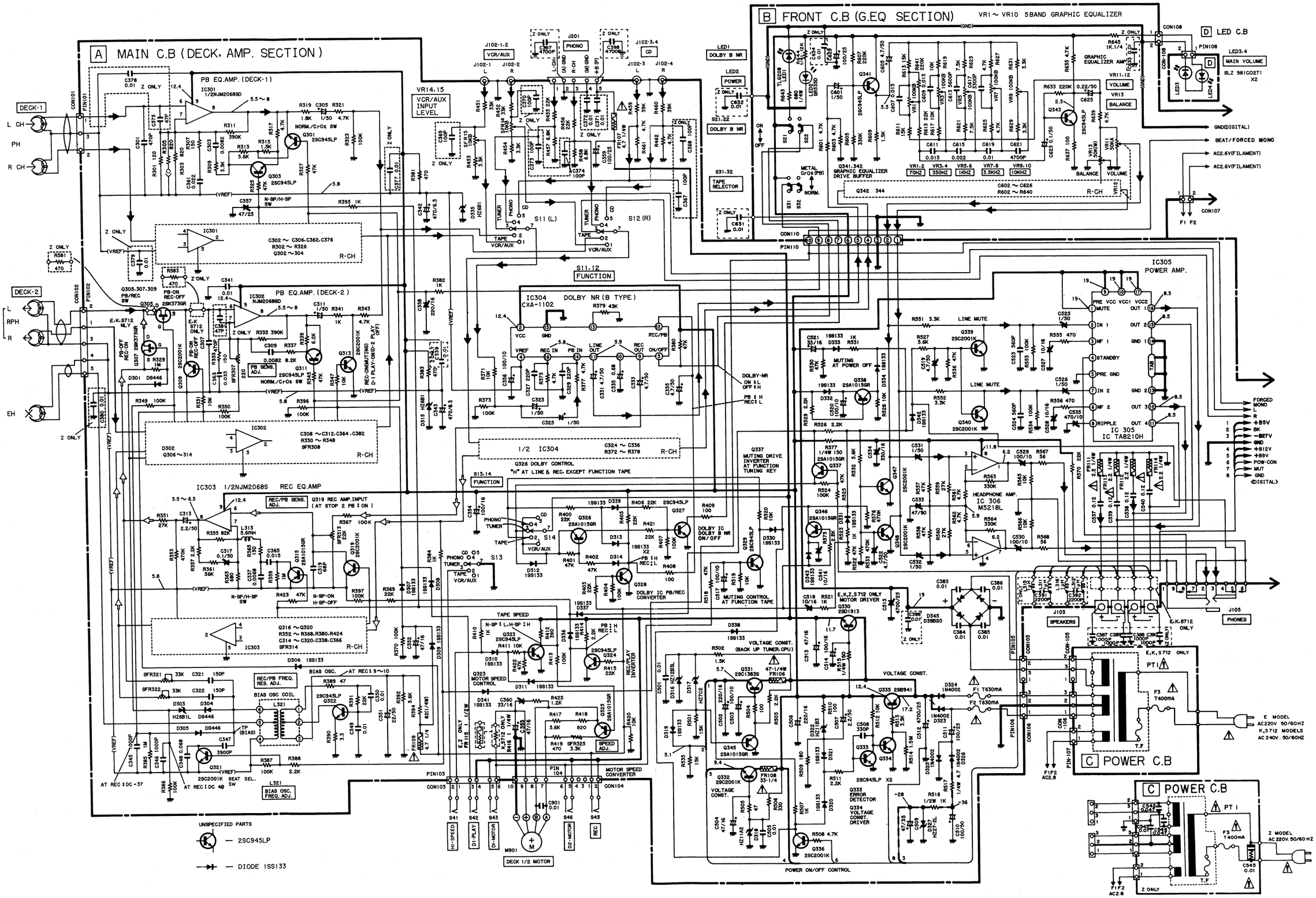
2SK246
2SK373

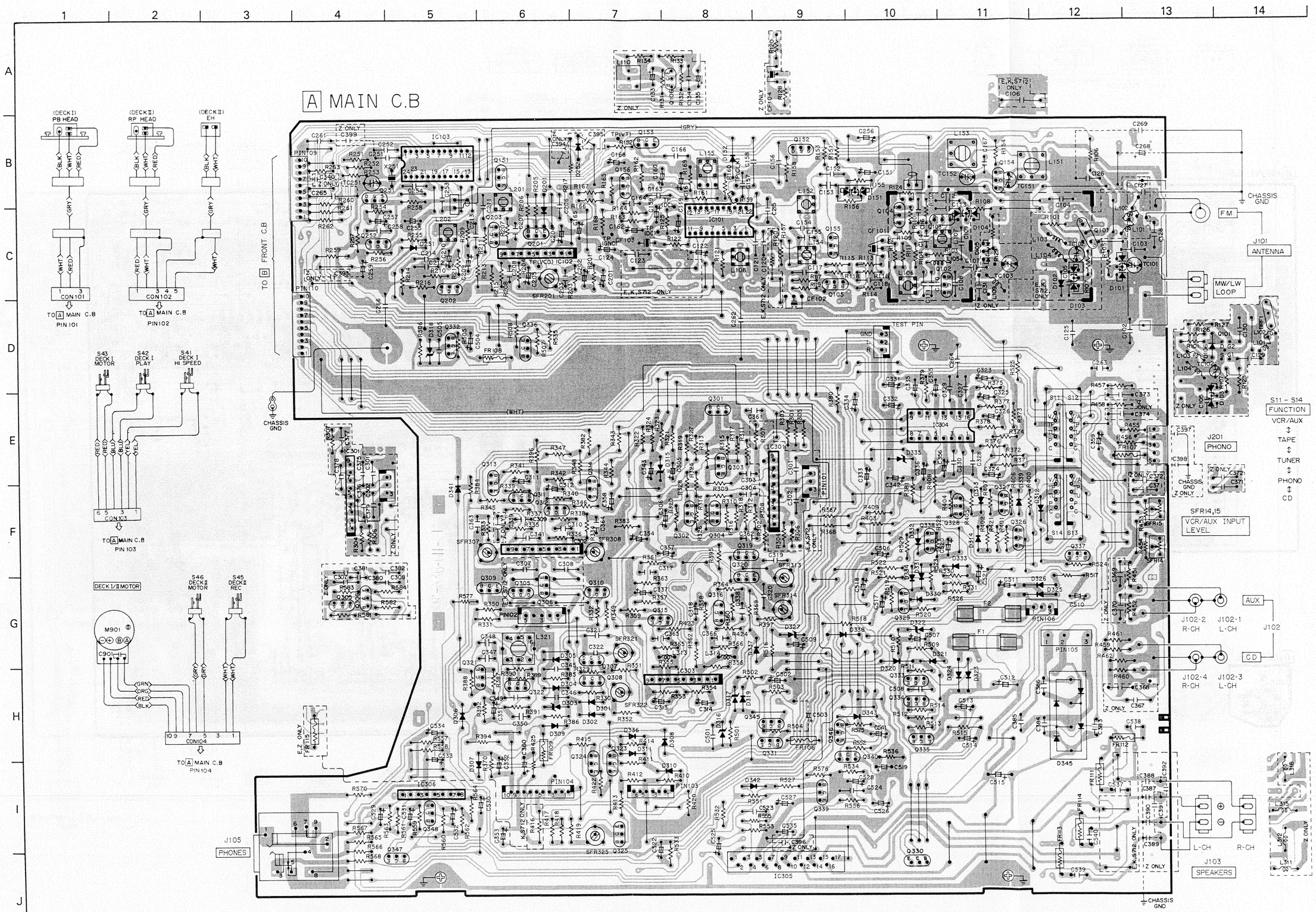


3SK73

RN2203

SCHEMATIC DIAGRAM—1




A MAIN C.B
(DECK I) PB HEAD
(DECK II) RP HEAD
(DECK II) EH
BLK
WHT
RED
GRY
CON101
CON102
TO A MAIN C.B PIN101
TO A MAIN C.B PIN102
S43 DECK I MOTOR
S42 DECK I PLAY
S41 DECK I HI SPEED
CON103
TO A MAIN C.B PIN 103
DECK I/II MOTOR
S46 DECK II MOTOR
S45 DECK II REC
M901
CON104
TO A MAIN C.B PIN104
TO B FRONT C.B
CHASSIS GND
TEST PIN
PIN101
PIN102
PIN103
PIN104
PIN105
PIN106
PIN107
PIN108
PIN109
PIN110
J105 PHONES
J201 PHONO
J101 ANTENNA
FM
MW/LW LOOP
J102-2 R-CH
J102-1 L-CH
J102-4 R-CH
J102-3 L-CH
AUX
J102
CD
J103 SPEAKERS
L-CH
R-CH
S11 - S14 FUNCTION
VCR/AUX
TAPE
TUNER
PHONO
CD
SFR14,15 VCR/AUX INPUT LEVEL
E,K,S712 ONLY
Z ONLY
IC101
IC102
IC103
IC301
IC303
IC304
IC305
IC306
IC503
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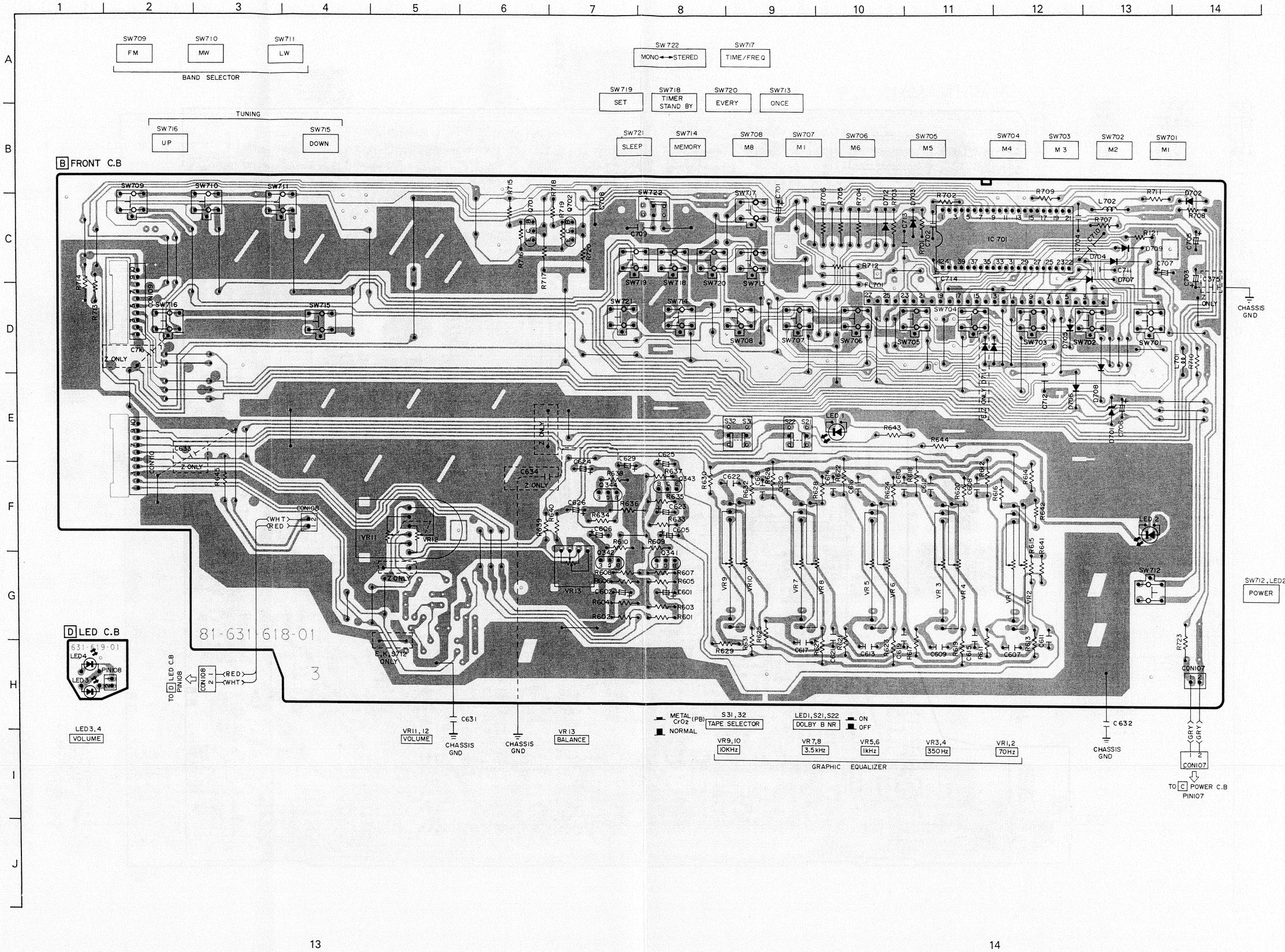
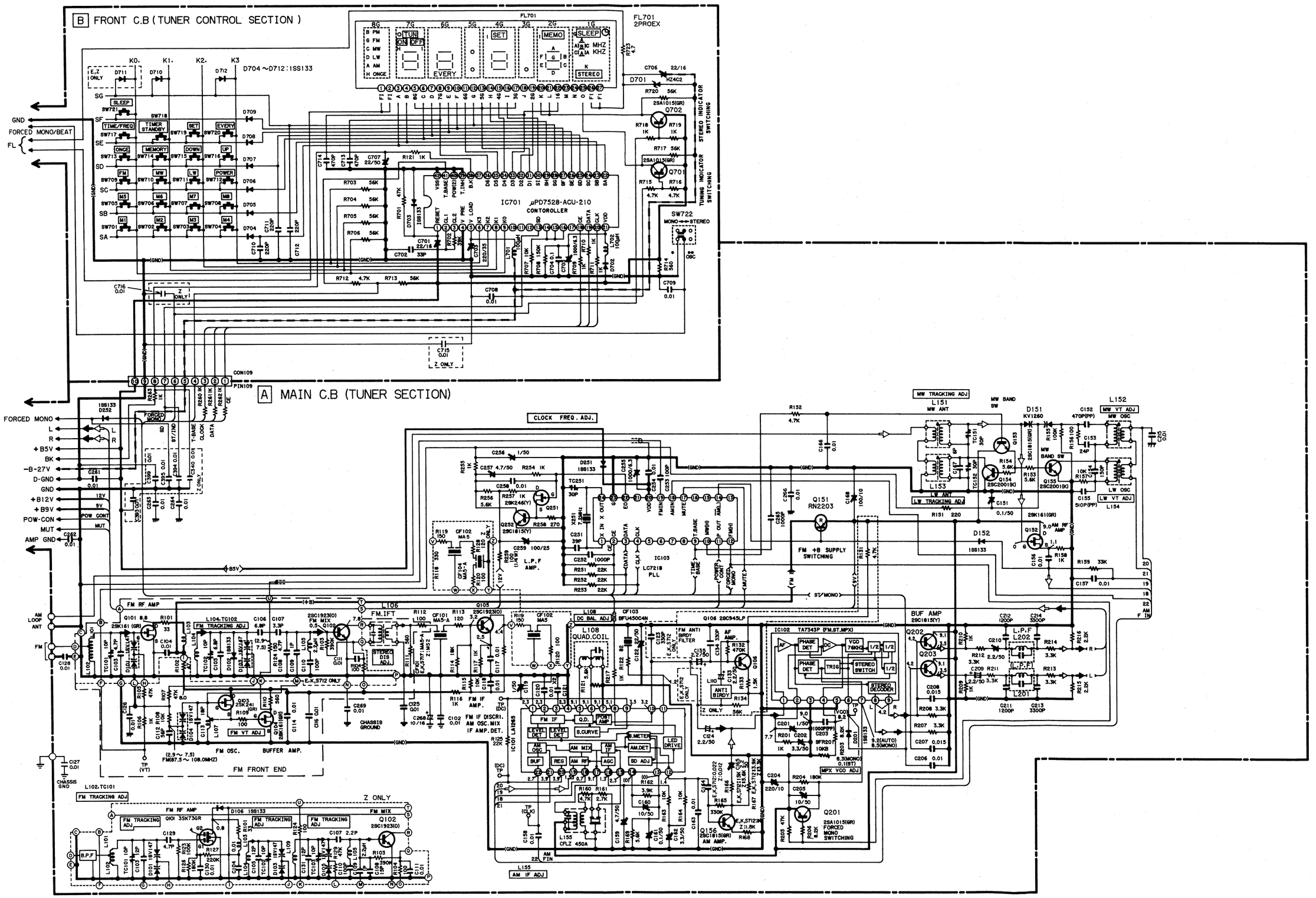
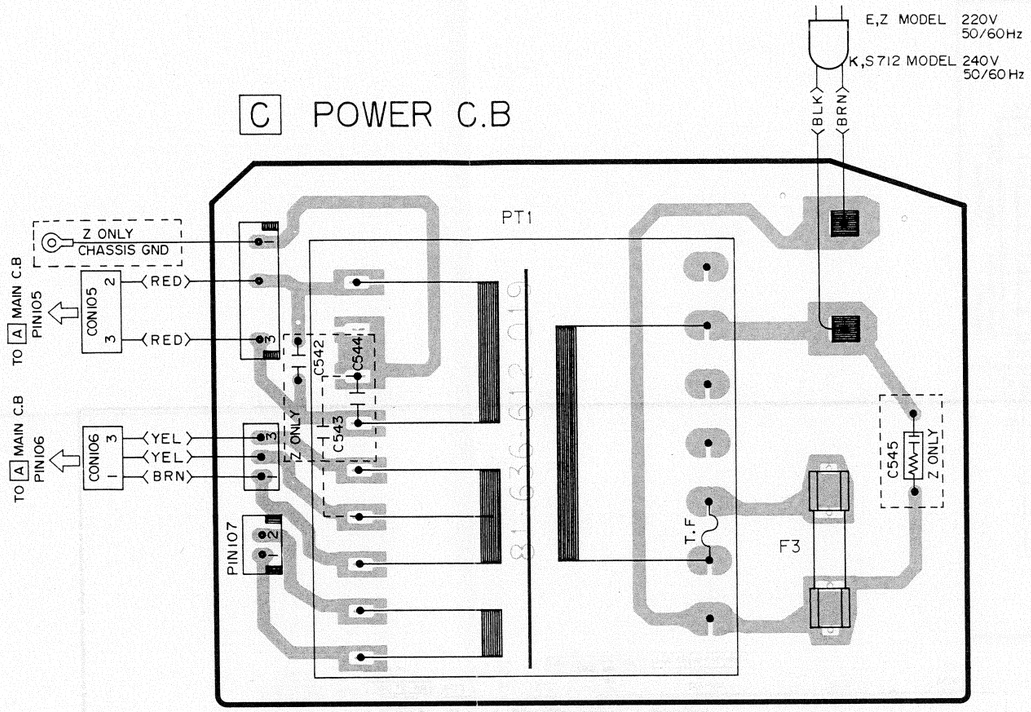

1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I J
SW709 FM
SW710 MW
SW711 LW
BAND SELECTOR
TUNING
SW716 UP
SW715 DOWN
SW722 MONO ◄► STEREO
SW717 TIME/FREQ
SW719 SET
SW718 TIMER STAND BY
SW720 EVERY
SW713 ONCE
SW721 SLEEP
SW714 MEMORY
SW708 M8
SW707 M7
SW706 M6
SW705 M5
SW704 M4
SW703 M3
SW702 M2
SW701 M1
B FRONT C.B
IC701
FL701
LED1
LED2
SW712
POWER
SW712, LED2
CHASSIS GND
D LED C.B
81-631-618-01
631-619-01
LED4
LED3
PIN108
TO D LED C.B PIN108
CON108
RED
WHT
LED3,4 VOLUME
VR11,12 VOLUME
VR13 BALANCE
E,K,S712 ONLY
Z ONLY
METAL CrO2 (PB)
NORMAL
S31,32 TAPE SELECTOR
LED1,S21,S22 DOLBY B NR
ON
OFF
VR9,10 10KHz
VR7,8 3.5kHz
VR5,6 1kHz
VR3,4 350Hz
VR1,2 70Hz
GRAPHIC EQUALIZER
CON107
GRY
TO C POWER C.B PIN107

SCHEMATIC DIAGRAM—2

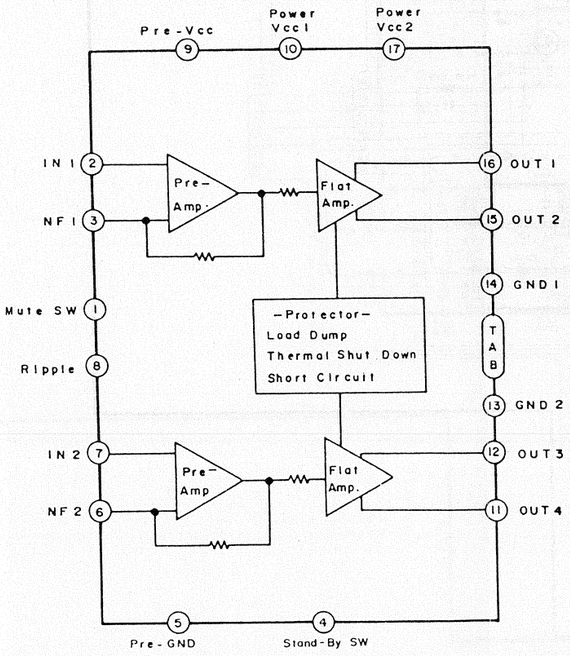


WIRING－3

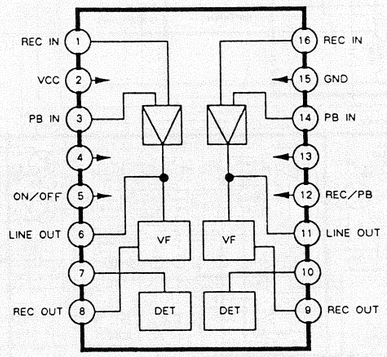


IC BLOCK DIAGRAM－1

IC, TA8210H



IC, CXA1102



IC DESCRIPTION

1. IC, μPD7528ACU－204 (-210)

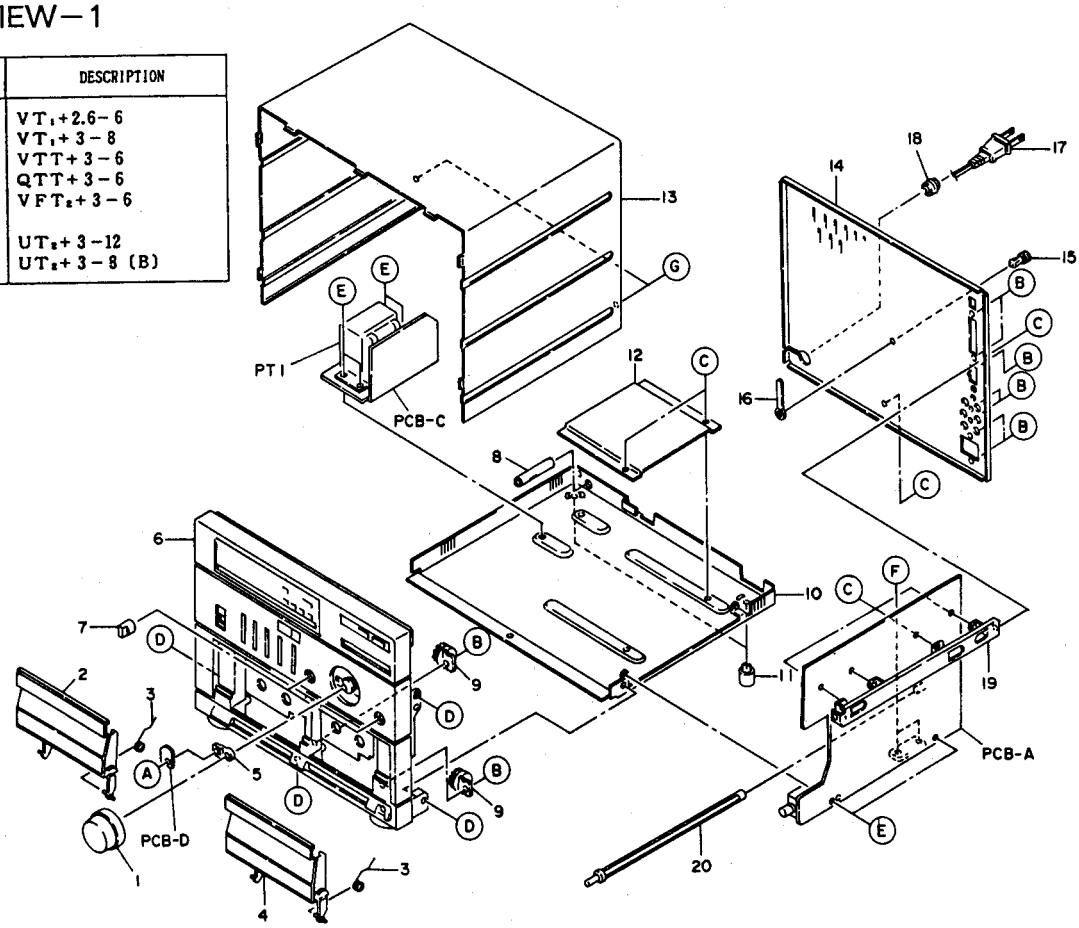
Pin No.	Pin name	Description
1	RESET	Reset input. The "H" pulse resets the microprocessor.
2 3	CL1 CL2	Clock oscillation pins of the microprocessor. (approx. 400Hz)
4	V PRE	Negative power supply for the output predriver. Connected to GND.
5	V ROAD	Negative power supply for the output driver load resistor.
6 7 8 9	K3 K2 K1 K0	Key matrix inputs
10 11	EVERY ONCE	"H" during TIMER ON
12	——	——
13	SD	Auto stop signal input. The unit stops at "L" level.
14 15 16	A B C	Remote control inputs supplied from M50761-433S.
17	——	——
18 19 20	CE DATA CLK	—— Outputs a signal momentarily when any key is operated, supplied to LC7217.
21	V_{DD}	Power supply pin, 5V±10%
22 23 24 25 26 27 28 29 30	Sa Sb Sc Sd Se Sf Sg Sh Si	Frequency display and clock time segment outputs and key matrix outputs. Active "H"
31 32 33 34 35 36	D3 D2 D1 D4 D5 D6	Frequency display and clock time digit signal outputs Active "H"
37	——	——
38	P BRK	Power failure detection input. The unit enters the backup mode at "L".
39	T INH	Connected to GND
40	——	——
41	T BASE	8Hz input supplied from LC7217 for the reference clock.
42	Vss	GND pin

2. IC, LC7217 (LC7218)

Pin No.	Pin name	Description
1 24	X IN X OUT	Clock oscillation pins. 7.2MHz crystal is connected to these pins.
2 3 4	CE DATA CLK	When any key is operated, a signal is supplied from the CPU. Active "H".
5 8	——	Set open
9	T. BASE	8Hz output supplied to the CPU for the reference clock.
10	——	——
11	POW CONT	Power control output. Outputs "H" during power ON.
12	FM H	Outputs "H" when an FM broadcast is being received.
13	——	——
14	AM H	Outputs "H" when an AM broadcast is being received.
15 16	——	Open.
17	MUTE	Outputs "L" momentarily when a key is operated. Goes "L" during power OFF(active "L")
18	AM IN	AM local oscillation input.
19	FM IN	FM local oscillation input.
20	V_{DD}	Power supply, 5V±10%
21	E_0	PLL error output
22	——	Open
23	Vss	GND

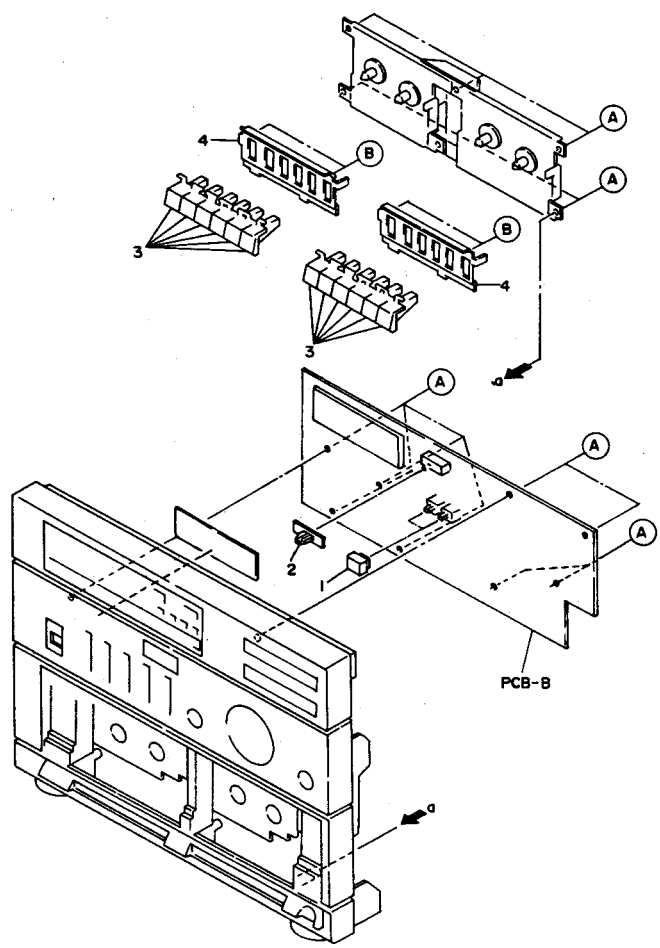
EXPLODED VIEW－1

REF.NO.	PART NO.	DESCRIPTION
A	87-353-073-21	VT₁+2.6－6
B	87-351-095-21	VT₁+3－8
C	87-081-511-01	VTT+3－6
D	87-081-531-01	QTT+3－6
E	87-512-094-21	VFT₂+3－6
F	87-342-097-21	UT₂+3－12
G	87-347-095-01	UT₂+3－8 (B)



EXPLODED VIEW－2

REF.NO.	PART NO.	DESCRIPTION
A	87-356-096-21	VT₁+3－10 (R)
B	87-351-095-21	VT₁+3－8



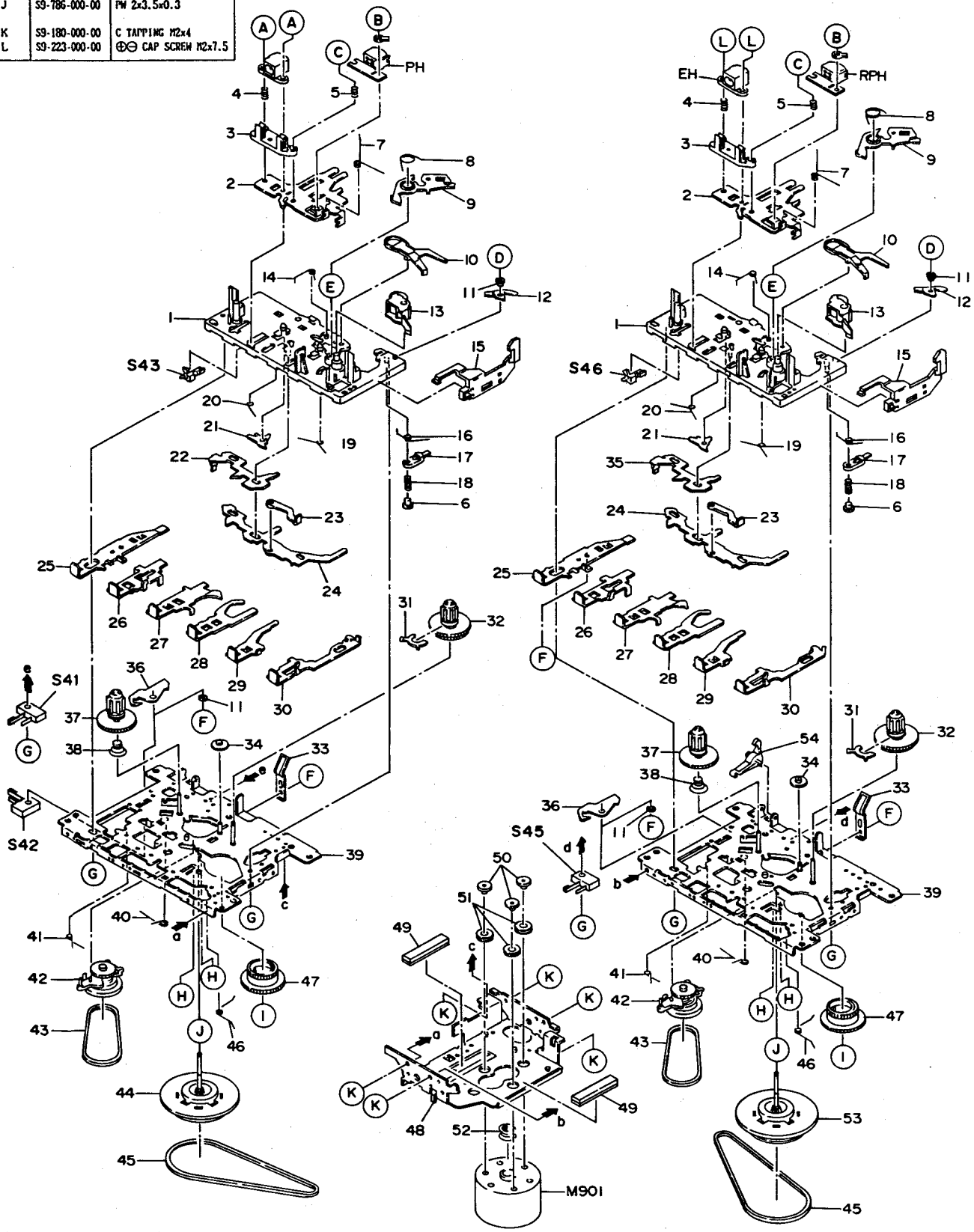
MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'T
	1-1	★09-047-361-010	KNOB VOLUME ASSY	※	1
	1-2	★09-047-405-010	CASSETTE BOX L ASSY (S44)	※	1
	1-2	★09-047-407-010	CASSETTE BOX L ASSY (S712)	※	1
	1-3	★81-631-209-119	T-SPRING, EJECT 2		2
	1-4	★09-047-406-010	CASSETTE BOX R ASSY (S44)	※	1
	1-4	★09-047-408-010	CASSETTE BOX R ASSY (S712)	※	1
	1-5	---	HOLDER, LED VOLUME 2		1
	1-6	★09-047-409-010	FRONT CABINET ASSY (S44)	※	1
	1-6	★09-047-410-010	FRONT CABINET ASSY (S712)	※	1
	1-7	★81-626-020-019	KNOB, BALANCE		2
	1-8	★87-839-709-019	UL TUBE 7 DIA		1
	1-9	★87-063-143-010	OIL-DAMP		2
	1-10	---	CHASSIS, AMP		1
	1-11	★82-132-010-010	FOOT		2
	1-12	---	HEAT SINK M2		1
	1-13	★81-631-036-018	CABINET, STEEL		1
	1-14	★81-631-054-010	PANEL, REAR (E ONLY)		1
	1-14	★81-631-053-010	PANEL, REAR (K ONLY)		1
	1-14	★81-631-055-010	PANEL, REAR (Z ONLY)		1
	1-14	★81-631-059-010	PANEL, REAR (S712)		1
	1-15	★87-084-077-010	NYLON RIVET 3.5-4.5		1
	1-16	---	WIRE BINDER		1
	1-17	★87-034-736-010	AC CORD ASSY (E, Z ONLY)		1
	1-17	★87-034-975-018	AC CORD ASSY (K ONLY) (S712)		1
	1-18	★87-085-185-010	BUSHING, AC CORD E		1
	1-19	---	HOLDER, P. C. B		1
	1-20	★81-631-208-019	ROD, FUNCTION		1

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'T
	2-1	★81-626-016-019	PUSH-BUTTON, SUR		2
	2-2	★81-783-016-019	KNOB, SLIDE (E, K, Z ONLY)		1
	2-2	★81-631-068-019	KNOB, SLIDE (S712)		1
	2-3	★81-629-007-119	PUSH-KEY (1)		12
	2-4	---	HOLDER, PUSH-KEY		2

EXPLODED VIEW－3

REF.NO.	PART NO.	DESCRIPTION
A	S9-821-000-00	⊕⊖ CAP SCREW M2x8
B	S9-115-000-00	BIND SCREW
C	S9-922-000-00	AZIMUTH M2x7
D	S9-999-200-18	P TAPPING M2x3.5
E	S9-999-030-13	PW 1.4x3.8x0.5(CUT)
F	S9-179-000-00	C TAPPING M2x3
G	S9-679-000-00	P TAPPING M2x5
H	S9-999-180-09	TAPPING M2x4.5
I	S9-422-000-00	PW 1.2x3.8x0.3(CUT)
J	S9-786-000-00	PW 2x3.5x0.3
K	S9-180-000-00	C TAPPING M2x4
L	S9-223-000-00	⊕⊖ CAP SCREW M2x7.5



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	3-1	★S1-921-143-010	BASE ASSY		2
	3-2	★S1-921-030-020	HEAD PANEL		2
	3-3	★S1-921-030-060	HEAD BASE		2
	3-4	★S1-821-030-080	EH SPRING		2
	3-5	★S1-821-030-070	AZIMUTH SPRING		2
	3-6	★S1-921-140-110	PAUSE STOPPER		2
	3-7	★S1-921-030-090	P-SPRING, PANEL		2
	3-8	★S1-921-260-050	GEAR PLATE SPRING		2
	3-9	S1-921-265-010	GEAR PLATE ASSY		2
	3-10	★S1-921-260-040	SENSING LEVER		2
	3-11	★S1-921-140-370	P ARM COLLAR		4
	3-12	★S1-921-140-340	P ARM		2
	3-13	S1-921-043-010	PINCH ROLLER ARM ASSY		2
	3-14	★S1-921-140-180	M CONTROL SPRING		2
	3-15	★S1-921-130-020	EJECT SLIDE LEVER		2
	3-16	★S1-921-140-130	P CONTROL SPRING		2
	3-17	★S1-921-141-0A0	PAUSE LEVER		2
	3-18	★S1-921-140-120	PAUSE LEVER SPRING		2
	3-19	★S1-921-140-150	BUTTON LEVER SPRING (B)		2
	3-20	★S1-921-140-140	BUTTON LEVER SPRING (A)		2
	3-21	★S1-921-140-200	PR STOPPER		2
	3-22	★S1-921-140-400	SWITCH ACTUATOR		1
	3-23	★S1-821-011-590	E KICK LEVER		2
	3-24	★S1-921-140-380	PUCH-BUTTON ACTUATOR		2
	3-25	★S1-921-140-220	REC BUTTON LEVER		2
	3-26	★S1-921-140-230	PLAY BUTTON LEVER		2
	3-27	★S1-921-140-240	REW BUTTON LEVER		2
	3-28	★S1-921-140-250	FF BUTTON LEVER		2
	3-29	★S1-921-140-260	STOP BUTTON LEVER		2
	3-30	★S1-921-140-270	PAUSE BUTTON LEVER		2
	3-31	★S1-921-050-060	SENSOR		2
	3-32	S1-921-053-010	TAKE-UP REEL ASSY		2
	3-33	★S1-821-100-990	PACK SPRING		2
	3-34	S1-821-100-700	FF GEAR		2
	3-35	★S1-921-140-080	SWITCH ACTUATOR		1
	3-36	★S1-921-020-010	REC ARM		2
	3-37	S1-921-053-020	SUPPLY REEL ASSY		2
	3-38	★S1-829-100-100	BACK TENSION SPRING		2
	3-39	★S1-921-015-010	CHASSIS ASSY		2
	3-40	★S1-921-140-210	REC BUTTON LEVER SPRING		2
	3-41	★S1-921-140-170	P.S LEVER SPRING		2
	3-42	S1-921-073-020	RF CLUTCH ASSY		2
	3-43	S1-921-070-030	RF BELT		2
	3-44	S1-921-093-050	FLYWHEEL ASSY		1
	3-45	S1-821-122-200	MAIN BELT		2
	3-46	★S1-921-140-160	E ACTUATOR SPRING		2
	3-47	S1-921-260-020	CAM GEAR		2
	3-48	★S1-921-120-110	MOTOR BRACKET		1
	3-49	★S1-921-120-120	ANTI VIBRATION FELT MAT		2
	3-50	★S1-821-120-020	MOTOR COLLAR SCREW		3
	3-51	★S1-820-130-060	MOTOR RUBBER		3
	3-52	★S1-921-120-130	MOTOR PULLEY		1
	3-53	S1-921-093-060	FLYWHEEL ASSY		1
	3-54	★S1-821-100-690	RECORD SAFETY LEVER		1

■SPEAKER LIST (SX−S44A, S712A)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1	★83-106-027-010	GRILL FRAME ASSY (S44A)		1
	2	★83-106-028-010	GRILL FRAME ASSY (S712A)		1
	3	83-106-601-010	WOOFER, SPEAKER		1
	4	83-106-603-010	TWEETER, SPEAKER		1
	5	★83-096-614-010	CORD, SPEAKER		1
	6	★87-010-007-010	CAP, ELECT 3.3μF		1

■ACCESSORIES／PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1	★81-647-915-018	INSTRUCTION BOOKLET (E) (CX-S44)	※	1
	2	★81-647-916-018	INSTRUCTION BOOKLET (CX-S712)	※	1
	3	★87-043-097-010	FM FEEDER ANT (F) (EXCEPT Z)		1
	4	★81-631-647-010	AM LOOP ANT (S) NC		1